

Vogt: Heavy Flavor Decay

Uncertainty bands from c and b decays cross over wide range, $2.5 < p_T < 12$ GeV
 Reconstructed D and B mesons necessary to set relative cross sections

$$B(D \rightarrow e) = 10.3 \pm 1.2 \%$$

$$B(B \rightarrow e) = 10.86 \pm 0.35 \%$$

$$B(B \rightarrow D \rightarrow e) = 9.6 \pm 0.6 \%$$

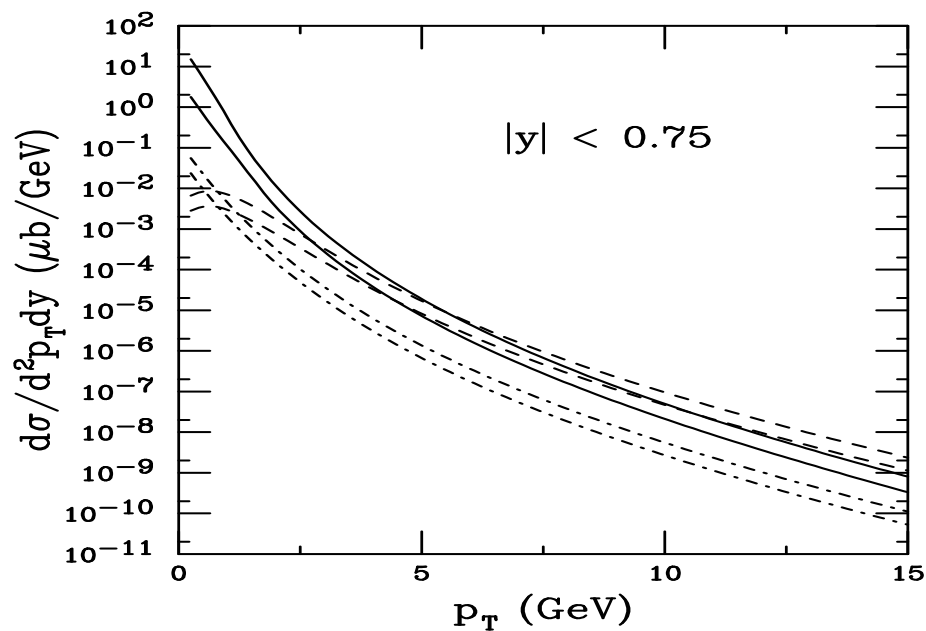


Figure 1: The theoretical FONLL bands for $D \rightarrow eX$ (solid), $B \rightarrow eX$ (dashed) and $B \rightarrow DX \rightarrow eX'$ (dot-dashed) as a function of p_T in $\sqrt{s} = 200$ GeV pp collisions for $|y| < 0.75$.